

REMARKS/ARGUMENTS

Claims 11 to 13, 16 and 17 were rejected under 35 U.S.C. §102(b) as being anticipated by Markham et al., U.S. Patent No. 6,215,119. Claims 14 and 15 were rejected under 35 U.S.C. §103(a) as being unpatentable over Markham et al. in view of Eckelmeyer, U.S. Patent No. 4,271,379. Claim 18 was rejected under 35 U.S.C. §103(a) as being unpatentable over Markham et al. in view of Jackson et al., U.S. Patent No. 7,302,237 and in further view of Eckelmeyer. Claims 19 and 20 were rejected under 35 U.S.C. §103(a) as being unpatentable over Markham et al., U.S. Patent No. 6,215,119 in view of Marmin, U.S. Patent 5,242,367.

Claim 11 has been amended to include the limitation of previous claim 12. Claim 12 has been canceled. Support for the amendment to claim 11 may be found in claims 2 and 12. Claims 13 to 20 have been amended to provide proper antecedent basis.

Reconsideration of the application is respectfully requested.

Rejections under 35 U.S.C. §102(b)

Claims 11 to 13, 16 and 17 were rejected under 35 U.S.C. §102(b) as being anticipated by Markham et al., U.S. Patent No. 6,215,119.

Markham et al. discloses an encoder wheel 100. First and second encoder sensors 200A, 200B are usable with the codewheel 100. A circuit 800 generates a low-error signal for the signals generated by the first and second sensors. The circuit 800 digitally synthesizes a signal that is phase locked half way in time between the two sensor signals from the first and second encoder sensors 200A and 200B.

As amended claim 11 recites a rotary element of a printing press comprising:
an encoder for generating a periodic first signal in response to rotation of the rotary element; and
an evaluation unit linked to the encoder having at least one synthesizer for generating a second signal having a resolution ratio, a frequency ratio, and a phase relation to the first signal,
the evaluation unit including a control interface for data exchange, the control interface adjusting or selecting at least one of the resolution ratio, the frequency ratio and the phase relation of the first signal to the second signal based on data transmitted for the synthesizer.

Markham et al. does not show or teach “the control interface *adjusting or selecting* at least one of the resolution ratio, the frequency ratio and the phase relation of the first signal to the second signal based on data transmitted for the synthesizer” as now recited in claim 11. In Markham et al., the circuit “synthesizes a signal that is *phase locked* half way in time between the two sensor signals.” The signal is fixed with respect to the phase of the two sensor signals to provide a correction signal; there is no “*adjusting*” as now recited in claim 11.

Furthermore, Markham et al. does not teach or disclose “a control interface for data exchange” as now recited in claim 11. Since the synthesized signal in Markham et al. is phase locked half way in time between the two sensor signals, there is no need or desire for a “control unit interface” to adjust or select resolution ratio, the frequency ratio and phase relation. Adjusting or selecting a phase is contrary to Markham et al. where the phase is locked half way in time.

Withdrawal of the rejections to claims 11 to 13, 16 and 17 under 35 U.S.C. §102(b) is respectfully requested.

Rejections under 35 U.S.C. §103(a)

Claims 14 and 15 were rejected under 35 U.S.C. §103(a) as being unpatentable over Markham et al. in view of Eckelmeyer, U.S. Patent No. 4,271,379.

Markham et al. is discussed above.

Eckelmeyer discloses encoders associated with first and second motors to produce pulse trains which are compared for motor speed relationship. If the relationship is not correct, the energization of the second motor is varied to correct the error. See abstract.

Claims 14 and 15 depend from claim 11. In view of the arguments above with respect to claim 11, withdrawal of the rejection to claims 14 and 15 under 35 U.S.C. §103(a) is respectfully requested.

Claim 18 was rejected under 35 U.S.C. §103(a) as being unpatentable over Markham et al. in view of Jackson et al., U.S. Patent No. 7,302,237 and in further view of Eckelmeyer.

Markham et al. is discussed above.

Jackson et al. discloses a synthesizer 100 that includes two signal generators 10.

Eckelmeyer is discussed above.

Claim 18 depends from claim 11. In view of the arguments above with respect to claim 11, withdrawal of the rejection to claim 18 under 35 U.S.C. §103(a) is respectfully requested.

Claims 19 and 20 were rejected under 35 U.S.C. §103(a) as being unpatentable over Markham et al., U.S. Patent No. 6,215,119 in view of Marmin, U.S. Patent 5,242,367.

Markham et al. is discussed above.

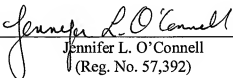
Marmin discloses a folder for a rotary offset printing press comprising a transfer cylinder, a first-fold cylinder and a second fold cylinder.

Claims 19 and 20 depend from claim 11. In view of the arguments above with respect to claim 11, withdrawal of the rejection to claims 19 and 20 under 35 U.S.C. §103(a) is respectfully requested.

CONCLUSION

The present application is respectfully submitted as being in condition for allowance and applicants respectfully request such action.

Respectfully submitted,
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